12269 East Vassar Drive, Aurora, CO 80014
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DATA ASSESSMENT FORM

Project Title:	Boeing SSFL RFI, Group 1A Data Gap
Project Manager:	D. Hambrick
Analysis/Method:	Metals by EPA 6010B, EPA 6020, and 7471A
QC Level:	V[1]
SDG:	IPJ0613
Matrix:	Soil
No. of Samples:	5
No. of Reanalyses:	0
Date Reviewed:	November 29, 2006
Reviewer:	P. Meeks
Reference:	USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2/94)
Samples Reviewed:	LFBS67S01, LFBS67S02, LFBS88S01, LFBS89S01, LFBS89S02

Data Validation Findings

	Findings	Qualifications
1. Sample Management	The samples were received within the temperature limits of 4°±2°C, at 5°C. The COC was signed and dated by field and laboratory personnel. Samples LFBS67S02, LFBS89S01, and LFBS89S02 were received on HOLD. Metals analyses were requested in a memo from MWH personnel dated 10/20/06. As the samples were couriered directly from the field to the laboratory, custody seals were not necessary. The 6-month ICP and IPC-MS metals and the 28-day mercury analytical holding times were met.	No qualifications were required.
3. Method Blanks 6J09073, 6J14034, 6J10064, 6J23096, 6J23097, 6J25078	Antimony was detected in bracketing CCBs at 0.065 and 0.057 µg/L.	Antimony detected in LFBS67S01 and LFBS88S01 were qualified as estimated, "UJ."
5. LCS/BS 6J09073, 6J14034, 6J10064, 6J23096, 6J23097, 6J25078	All recoveries were within the laboratory-established control limits.	No qualifications were required.

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	Findings	Qualifications
6. Duplicates None	None	None
7. MS/MSDs None	Method accuracy was assessed based on LCS results.	No qualifications were required.
10. Other	ICP-MS results for LFBS67S02, LFBS88S01, and LFBS89S01 were reported from 10× dilutions. The reviewer noted that some of the original mercury results were not reproducible from the initial calibration data provided. This was brought to the attention of TestAmerica. TestAmerica was unable to determine the cause but was certain that the initial calibration information was correct. The reviewer, therefore, revised the Form Is to report the mercury results as calculated from the initial calibration provided.	No qualifications were required.
11. Field QC Samples Field blank: BSQW14F01 (IPJ2606) Equipment rinsate: LFQW03E02 (IPJ0700) Field duplicates: None	There were numerous detects in both field QC samples.	Copper, lead, thallium, and zinc detected in the site soil samples were qualified as estimated, "J." Nickel in LFBS67S01 and LFBS88S01 was qualified as estimated, "J."
Comments	None	None

[1] Level V validation consists of cursory review of the summary forms only, and raw data is not evaluated. The reported values on the summary forms are presumed to be correct and no verification of the values from the raw instrument output is performed. Criteria not reviewed include initial and continuing calibration, continuing calibration blanks, interference check samples (ICSA/ICSAB), and serial dilutions.

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MWH-Walnut Creek/Boeing Group 1A
1340 Treat Boulevard, Suite 300
Walnut Creek, CA 94596
Attention: Travis Peterson

Project ID: SSFL Group 1A -LETF
Report Number: IPJ0613

Sampled: 10/05/06
Received: 10/05/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Rev Qual	Qual Code
Sample ID: IPJ0613-01 (LFBS67S01 - Soil)											
Reporting Units: mg/kg dry											
Aluminum	EPA 6010B	6J09073	5.2	10	**9500**	1	10/09/06	10/17/06			
Antimony	EPA 6020	6J14034	0.031	1.0	**0.098**	1.01	10/14/06	10/14/06	UJ	J	B
Arsenic	EPA 6020	6J14034	0.26	0.52	**4.5**	1.01	10/14/06	10/14/06			
Barium	EPA 6020	6J14034	0.084	0.52	**50**	1.01	10/14/06	10/14/06			
Beryllium	EPA 6020	6J14034	0.042	0.31	**0.30**	1.01	10/14/06	10/16/06	J		
Boron	EPA 6010B	6J09073	1.0	5.2	**14**	1	10/09/06	10/17/06			
Cadmium	EPA 6020	6J14034	0.026	0.52	**0.82**	1.01	10/14/06	10/14/06			
Chromium	EPA 6020	6J14034	0.37	1.0	**11**	1.01	10/14/06	10/14/06			
Cobalt	EPA 6020	6J14034	0.084	0.52	**3.7**	1.01	10/14/06	10/14/06			
Copper	EPA 6020	6J14034	0.21	1.0	**6.4**	1.01	10/14/06	10/14/06	J		BF
Lead	EPA 6020	6J14034	0.052	0.52	**13**	1.01	10/14/06	10/14/06	J		BF
Mercury	EPA 7471A	6J10064	0.0085	0.021	**1.5**	1.02	10/10/06	10/10/06			
Molybdenum	EPA 6020	6J14034	0.10	1.0	**0.95**	1.01	10/14/06	10/14/06	J		
Nickel	EPA 6020	6J14034	0.47	1.0	**6.6**	1.01	10/14/06	10/14/06	UJ		F
Selenium	EPA 6020	6J14034	0.21	1.0	ND	1.01	10/14/06	10/14/06	U		
Silver	EPA 6020	6J14034	0.052	0.52	**0.078**	1.01	10/14/06	10/14/06	J		
Thallium	EPA 6020	6J14034	0.10	0.52	**0.17**	1.01	10/14/06	10/14/06	J	J	BF
Vanadium	EPA 6020	6J14034	0.42	1.0	**19**	1.01	10/14/06	10/14/06			
Zinc	EPA 6020	6J14034	1.4	10	**72**	1.01	10/14/06	10/14/06	J		BF
Sample ID: IPJ0613-02 (LFBS67S02 - Soil)											
Reporting Units: mg/kg dry											
Aluminum	EPA 6010B	6J23096	5.2	10	**9800**	1.01	10/23/06	10/27/06			
Antimony	EPA 6020	6J23097	0.31	10	ND	10.1	10/23/06	10/25/06	U	RL-1	
Arsenic	EPA 6020	6J23097	2.6	5.2	ND	10.1	10/23/06	10/25/06	U	RL-1	
Barium	EPA 6020	6J23097	0.83	5.2	**59**	10.1	10/23/06	10/25/06			
Beryllium	EPA 6020	6J23097	0.42	3.1	**0.53**	10.1	10/23/06	10/25/06		RL-1, J	
Boron	EPA 6010B	6J23096	1.0	5.2	ND	1.01	10/23/06	10/27/06	U		
Cadmium	EPA 6020	6J23097	0.26	5.2	ND	10.1	10/23/06	10/25/06	U	RL-1	
Chromium	EPA 6020	6J23097	3.6	10	**10**	10.1	10/23/06	10/25/06		RL-1	
Cobalt	EPA 6020	6J23097	0.83	5.2	**5.7**	10.1	10/23/06	10/25/06			
Copper	EPA 6020	6J23097	2.1	10	**7.0**	10.1	10/23/06	10/25/06	J	RL-1, J	BF
Lead	EPA 6020	6J23097	0.52	5.2	**4.5**	10.1	10/23/06	10/25/06	J	RL-1, J	BF
Mercury	EPA 7471A	6J25078	0.0083	0.021	**0.12**	1	10/25/06	10/25/06			
Molybdenum	EPA 6020	6J23097	1.0	10	ND	10.1	10/23/06	10/25/06	U	RL-1	
Nickel	EPA 6020	6J23097	4.7	10	**11**	10.1	10/23/06	10/25/06			
Selenium	EPA 6020	6J23097	2.1	10	ND	10.1	10/23/06	10/25/06	U	RL-1	
Silver	EPA 6020	6J23097	0.52	5.2	ND	10.1	10/23/06	10/25/06	↓	RL-1	
Thallium	EPA 6020	6J23097	1.0	5.2	ND	10.1	10/23/06	10/25/06	↓	RL-1	
Vanadium	EPA 6020	6J23097	4.2	10	**22**	10.1	10/23/06	10/25/06			
Zinc	EPA 6020	6J23097	14	100	**52**	10.1	10/23/06	10/25/06	J	RL-1, J	BF

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

AM 11/29/06

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MWH-Walnut Creek/Boeing Group 1A
1340 Treat Boulevard, Suite 300
Walnut Creek, CA 94596
Attention: Travis Peterson

Project ID: SSFL Group 1A -LETF
Report Number: IPJ0613

Sampled: 10/05/06
Received: 10/05/06

METALS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Raw Qual	Qual Code
Sample ID: IPJ0613-05 (LFBS88S01 - Soil)											
Reporting Units: mg/kg dry											
Aluminum	EPA 6010B	6J09073	5.1	10	**13000**	1	10/09/06	10/17/06			
Antimony	EPA 6020	6J14034	0.031	1.0	**0.12**	1.01	10/14/06	10/14/06	J	UJ	B
Arsenic	EPA 6020	6J14034	0.26	0.52	**6.3**	1.01	10/14/06	10/14/06			
Barium	EPA 6020	6J14034	0.083	0.52	**67**	1.01	10/14/06	10/14/06			
Beryllium	EPA 6020	6J14034	0.041	0.31	**0.40**	1.01	10/14/06	10/16/06			
Boron	EPA 6010B	6J09073	1.0	5.1	**17**	1	10/09/06	10/17/06			
Cadmium	EPA 6020	6J14034	0.026	0.52	**11**	1.01	10/14/06	10/14/06			
Chromium	EPA 6020	6J14034	0.36	1.0	**14**	1.01	10/14/06	10/14/06			
Cobalt	EPA 6020	6J14034	0.083	0.52	**4.5**	1.01	10/14/06	10/14/06			
Copper	EPA 6020	6J14034	0.21	1.0	**8.9**	1.01	10/14/06	10/14/06		J	B, F
Lead	EPA 6020	6J14034	0.052	0.52	**12**	1.01	10/14/06	10/14/06		J	B, F
Mercury	EPA 7471A	6J10064	0.0082	0.021	~~**0.028**~~ 0.027	1	10/10/06	10/10/06			
Molybdenum	EPA 6020	6J14034	0.10	1.0	**0.36**	1.01	10/14/06	10/14/06	J		
Nickel	EPA 6020	6J14034	0.47	1.0	**8.7**	1.01	10/14/06	10/14/06		J	F
Selenium	EPA 6020	6J14034	0.21	1.0	ND	1.01	10/14/06	10/14/06		U	
Silver	EPA 6020	6J14034	0.052	0.52	**0.22**	1.01	10/14/06	10/14/06	J		
Thallium	EPA 6020	6J14034	0.10	0.52	**0.22**	1.01	10/14/06	10/14/06	J	J	B, F
Vanadium	EPA 6020	6J14034	0.41	1.0	**25**	1.01	10/14/06	10/14/06			
Zinc	EPA 6020	6J14034	1.3	10	**65**	1.01	10/14/06	10/14/06		J	B, F
Sample ID: IPJ0613-06 (LFBS89S01 - Soil)											
Reporting Units: mg/kg dry											
Aluminum	EPA 6010B	6J23096	5.1	10	**12000**	1	10/23/06	10/27/06			
Antimony	EPA 6020	6J23097	0.31	10	ND	10.1	10/23/06	10/25/06	RL-1	U	
Arsenic	EPA 6020	6J23097	2.6	5.1	**9.0**	10.1	10/23/06	10/25/06			
Barium	EPA 6020	6J23097	0.82	5.1	**88**	10.1	10/23/06	10/25/06			
Beryllium	EPA 6020	6J23097	0.41	3.1	**0.61**	10.1	10/23/06	10/25/06	RL-1, J		
Boron	EPA 6010B	6J23096	1.0	5.1	ND	1	10/23/06	10/27/06		U	
Cadmium	EPA 6020	6J23097	0.26	5.1	**7.4**	10.1	10/23/06	10/25/06			
Chromium	EPA 6020	6J23097	3.6	10	**22**	10.1	10/23/06	10/25/06			
Cobalt	EPA 6020	6J23097	0.82	5.1	**6.4**	10.1	10/23/06	10/25/06			
Copper	EPA 6020	6J23097	2.1	10	**17**	10.1	10/23/06	10/25/06		J	B, F
Lead	EPA 6020	6J23097	0.51	5.1	**15**	10.1	10/23/06	10/25/06		J	B, F
Mercury	EPA 7471A	6J25078	0.0082	0.020	**0.019**	1	10/25/06	10/25/06	J		
Molybdenum	EPA 6020	6J23097	1.0	10	ND	10.1	10/23/06	10/25/06	RL-1	U	
Nickel	EPA 6020	6J23097	4.6	10	**15**	10.1	10/23/06	10/25/06			
Selenium	EPA 6020	6J23097	2.1	10	ND	10.1	10/23/06	10/25/06	RL-1	U	
Silver	EPA 6020	6J23097	0.51	5.1	ND	10.1	10/23/06	10/25/06	RL-1	↓	
Thallium	EPA 6020	6J23097	1.0	5.1	ND	10.1	10/23/06	10/25/06	RL-1	↓	
Vanadium	EPA 6020	6J23097	4.1	10	**29**	10.1	10/23/06	10/25/06			
Zinc	EPA 6020	6J23097	13	100	**230**	10.1	10/23/06	10/25/06		J	B, F

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Michele Chamberlin
Project Manager

AM 11/21/06

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MWH-Walnut Creek/Boeing Group 1A
1340 Treat Boulevard, Suite 300
Walnut Creek, CA 94596
Attention: Travis Peterson

Project ID: SSFL Group 1A -LETF
Report Number: IPJ0613

Sampled: 10/05/06
Received: 10/05/06

METALS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers		
									Raw Qual	Qual Code	
Sample ID: IPJ0613-07 (LFBS89S02 - Soil)											
Reporting Units: mg/kg dry											
Aluminum	EPA 6010B	6J23096	5.5	11	**13000**	0.985	10/23/06	10/27/06			
Antimony	EPA 6020	6J23097	0.34	11	ND	10.1	10/23/06	10/25/06	U	RL-1	
Arsenic	EPA 6020	6J23097	2.8	5.6	**10**	10.1	10/23/06	10/25/06			
Barium	EPA 6020	6J23097	0.90	5.6	**74**	10.1	10/23/06	10/25/06			
Beryllium	EPA 6020	6J23097	0.45	3.4	**0.59**	10.1	10/23/06	10/25/06		RL-1, J	
Boron	EPA 6010B	6J23096	1.1	5.5	ND	0.985	10/23/06	10/27/06	U		
Cadmium	EPA 6020	6J23097	0.28	5.6	ND	10.1	10/23/06	10/25/06	U	RL-1	
Chromium	EPA 6020	6J23097	3.9	11	**17**	10.1	10/23/06	10/25/06			
Cobalt	EPA 6020	6J23097	0.90	5.6	**6.3**	10.1	10/23/06	10/25/06			
Copper	EPA 6020	6J23097	2.2	11	**9.9**	10.1	10/23/06	10/25/06	J	RL-1, J	BF
Lead	EPA 6020	6J23097	0.56	5.6	**4.1**	10.1	10/23/06	10/25/06	J	RL-1, J	BF
Mercury	EPA 7471A	6J25078	0.0089	0.022	ND	1	10/25/06	10/25/06	U		
Molybdenum	EPA 6020	6J23097	1.1	11	ND	10.1	10/23/06	10/25/06	U	RL-1	
Nickel	EPA 6020	6J23097	5.0	11	**14**	10.1	10/23/06	10/25/06			
Selenium	EPA 6020	6J23097	2.2	11	ND	10.1	10/23/06	10/25/06	U	RL-1	
Silver	EPA 6020	6J23097	0.56	5.6	ND	10.1	10/23/06	10/25/06	U	RL-1	
Thallium	EPA 6020	6J23097	1.1	5.6	ND	10.1	10/23/06	10/25/06	U	RL-1	
Vanadium	EPA 6020	6J23097	4.5	11	**29**	10.1	10/23/06	10/25/06			
Zinc	EPA 6020	6J23097	15	110	**53**	10.1	10/23/06	10/25/06	J	RL-1, J	BF

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Michele Chamberlin
Project Manager

PM 11/29/06

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